



	Time Local/		Local/ Length V		Perso	Number of Persons		nated nage	July 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ILLINOIS, Northwest									
Jo Daviess County Stockton	05 Trees	0225CST & power lines dov	vn		0	0	50K	20K	Thunderstorm Wind (EG52)
Rock Island County									
Port Byron	05 Nume	0235CST rous power lines d	own		0	0	50K	10K	Thunderstorm Wind (EG52)
Stephenson County									
Countywide	05	0235CST 0315CST			0	0	2.5M	50K	Thunderstorm Wind (EG61)
	Nume	rous trees & powe	r lines down						
Stephenson County									
Pearl City	05	0238CST 0300CST			0	0	2K		Heavy Rain
	Streets	s flooded							
Stephenson County									
5 W Freeport	05 Mobile	0243CST e home overturned	l & limbs dow	n	0	0	150K	15K	Thunderstorm Wind (EG61)
Connell County	1110011		. cc iiiios do ii						
Carroll County Shannon	05	0249CST			0	0	200K	10K	Thunderstorm Wind (EG52)
	Nume	rous limbs down;	house under co	onstruction l	nad roof torn				(_ 3-2)
Stephenson County									
3 SE Pearl City	05	0250CST			0	1	20K	10K	Thunderstorm Wind (EG55)
	Limb	down on a tent							
Stephenson County									
Freeport	05	0253CST 0306CST			0	0	50K		Thunderstorm Wind (EG52)
	8 inch	limbs down							

A MCS thunderstorm complex bowed out and raced across Eastern Iowa and Northwest Illinois in the pre dawn hours. Due to high freezing levels, hail was minimal. Along the Highway 20 corridor in Northeast Iowa and Northwest Illinois winds were estimated at 60 to 70 knots in places (70-80 mph). The cities of Dubuque, Iowa and Freeport, Illinois were particularly hard hit with many trees downed or uprooted. In Stephenson County Illinois, a well defined path of straight line winds was noted from 5 miles West of Freeport, across the northern part of the city, and east to the Stephenson/Winnebago county line. On the US 20 bypass around Freeport at Jct IL 75 five (5) 90 foot high voltage power poles were downed. One injury was reported on a campground southeast of Pearl City in Stephenson county were a tree limb fell on a tent. About 2 hours after the storms passed, a machine shed caught fire 4

Hancock County Warsaw	05 2115CST Trees & power lines down	0	0	50K	5K	Thunderstorm Wind (EG52)
Hancock County Hamilton	05 2118CST	0	0	50K	5K	Thunderstorm Wind (EG52)

to 5 miles north of Andrew, Iowa due to downed power lines.

Severe thunderstorms developed along the outflow boundary/front left over from the early morning storms. The storms trained over the same area producing heavy rain and flash flooding.





		Time Local/	Path Length	Path Width		Number of Persons		nated nage	July 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ILLINOIS, Northwest										
Stephenson County Freeport	07	0500CST 0535CST			0	0	2K		Heavy Rain	
	Street	flooding								
	rates of	of 1 to 2 inches a	n hour were full. The Cli	common wit	h the storms	s. Heavy	rain along	the North	avy rain and damaging winds. Rainfall Fork of the Maquoketa River in Iowa e storms moved through downing some	
Henry County										
Geneseo	07	1855CST 1858CST			0	0	10K	5K	Thunderstorm Wind (EG55)	
	10 inc	h diameter limb d	own with nun	nerous small	limbs					
Whiteside County										
7 NW Sterling	07 Tampi	1913CST ico Rd.			0	0	20K	10K	Hail(1.00)	
Henry County										
12 N Galva	07	1958CST			0	0	10K	15K	Hail(0.88)	
Henry County 4 N Galva	07	2014CST			0	0	10K	15K	Hail(0.88)	
	anothe		evening produ	ucing very h	eavy rain ar	nd some h			norning MCS. The storms evolved into wa and Northern Illinois. Training of	
Stephenson County										
Freeport	08	0615CST 0655CST			0	0	2K		Heavy Rain	
	Street	flooding								
Stephenson County										
Pearl City	08	0755CST 0835CST			0	0	15K		Heavy Rain	
	Ditche	es full. Some erosi	ion along edge	es of Pearl C	ity to Elroy	Rd.				
Rock Island County										
Rock Is	08	1030CST 1055CST			0	0	2K		Heavy Rain	
	in 25 r	ninutes								
Henry County										
4 N Osco	08	1050CST			0	0	2K		Heavy Rain	
	in 30 r	1120CST ninutes								
Stephenson County										
Freeport	08	1110CST			0	0	2K		Heavy Rain	
_	Small	1230CST streams & ditches	s overflowing							
II	Siliun	streams & arene.	, overnowing							
Henry County Kewanee	08	1140CST			0	0	2K		Heavy Rain	
		1200CST	71. 1.0.11		Ū	3	-11		, ,	
	Street	flooding & Mill (reek banktul							
Whiteside County	No.	11 <i>45.</i> CCT			0	0	2017		Lightning	
Sterling	08 Large	1145CST branch fell on hou	use		0	0	20K		Lightning	
	. 5-									



National Weather Service Storm Data and Unusual Weather Phenomena



Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Vidth Persons Damage		mage	July 2003 Character of Storm		
ILLINOIS, Northwest										
Bureau County										
Princeton	08 No po	1220CST ower & 911 system	n out		0	0	70K		Lightning	
Henderson County										
Gulfport to Gladstone	08	1240CST 1250CST			0	1	200K	20K	Thunderstorm Wind (EG55)	
	Trees	down & semi ove	erturned							
Warren County		4454 CCM								
2 SW Kirkwood to Kirkwood	08	1254CST 1300CST			0	0	50K	25K	Thunderstorm Wind (EG52)	
	Trees	down on U.S. 34	. Power out.							
Hancock County										
Dallas City	08	1257CST 1310CST			0	0	50K	5K	Thunderstorm Wind (EG52)	
	Power	r out								
Hancock County										
Warsaw	08	1314CST 1332CST			0	0	5K		Heavy Rain	
	Water	on roads								
	storm: develo	s to produce ver oped that produce semi overturned	y heavy rain ed concentrate that closed the	in short timed areas of date highway fo	e periods. amage. In I r about an h	Across S Henderson our while	outheast Io County nu in Burlingt	wa and W imerous tre on, numero	A high moisture atmosphere allowed est Central Illinois a small bow echo ees were downed across U.S. 34 along ous trees and power lines were downed. d a gust of 42 knots (48 mph).	
Hancock County 5 N Hamilton		1920CST 2050CST over IL 96 betwe			0	0	100K	20K	Flash Flood	
	Illinoi		eavy rain. Du				_		st Missouri and a part of West Central oss parts of Northern Clark county and	
Henderson County Raritan	09	1923CST 1926CST			0	0			Funnel Cloud	
Henderson County										

Countywide	09	2025CST 2038CST	0	0	100K	10K	Thunderstorm V
	Trees	& wires down southern half of county					
Mercer County							
New Boston	09	2028CST 2032CST	0	0			Funnel Cloud
Henderson County							
Rozetta	09	2035CST 2037CST	0	0			Funnel Cloud
	3 fun	nels					
Mercer County							
3 N Seaton	09	2039CST 2042CST	0	0			Funnel Cloud

Thunderstorm Wind (EG55)





		Time	Path	Path	Numbe	er of	Estim	ated	July 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	Injured	Dam Property	Crops	Character of Storm
ILLINOIS, Northwest									
Hancock County Augusta	09 Tree li	2043CST 2047CST mbs down			0	0	40K	5K	Thunderstorm Wind (EG52)
Warren County Roseville	09 Trees o	2049CST 2055CST down			0	0	20K	5K	Thunderstorm Wind (EG52)
Mcdonough County Macomb	09 Trees	2050CST 2100CST & wires down			0	0	100K		Thunderstorm Wind (EG51)
Mcdonough County 1.5 S Macomb	09 Power	2050CST 2100CST lines down 100	0 North Rd		0	0	30K	5K	Thunderstorm Wind (EG52)
Mcdonough County Macomb	09	2052CST 2053CST			0	0	15K		Hail(0.75)
Mcdonough County Macomb	09 Street	2055CST 2110CST flooding			0	0	2K		Heavy Rain
Mcdonough County Macomb	09 Second	2130CST 2230CST d storm with mo	ore street floodir	ng	0	0	5K		Heavy Rain
Hancock County Tioga	Northe MCS t produc	east Missouri. That moved acre	Thunderstorms of the cost of the area in	developed al- the late afte	ong old outf rnoon and e	low boun evening h	daries and a	ahead of a cing main	Funnel Cloud ss Eastern Iowa, Northern Illinois, and cold front and formed another severe ly wind damage. Training of storms re near saturation from rain over the
Whiteside County 1.4 E Rock Falls	A line	1740CST 1743CST pold Marina Par of thundersto side/Ogle county	rms produced	1 inch hail	0 at Oppold	0 Marina 1	20K Park on the	5K e shores o	Hail(1.00) of Sinnissippi Lake just west of the
Hancock County Dallas City	18	0304CST			0	0	20K	2K	Hail(0.75)
Mcdonough County Macomb	18	0304CST			0	0	20K		Hail(0.75)
Mcdonough County Tennessee	18 Large	0334CST 0339CST trees down			0	0	30K	5K	Thunderstorm Wind (EG57)





		Time Path H Local/ Length V		Path Width	Numb	per of	Estin	nated nage	July 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ILLINOIS, Northwest										
Mcdonough County Tennessee	18	0335CST			0	0	20K	2K	Hail(0.75)	
Mcdonough County										
Colchester	18	0338CST 0343CST			0	0	40K	5K	Thunderstorm Wind (EG52)	
	Trees									
Mcdonough County										
Tennessee	18	0530CST 0535CST			0	0	40K	5K	Thunderstorm Wind (EG52)	
	Trees	down								
Hancock County										
Nauvoo	18	0600CST 0605CST			0	0	3.5M	40K	Thunderstorm Wind (EG70)	
	Also b	by spotters. Trees	flattened.							
Hancock County										
5 N Hamilton	18	0605CST 0610CST			0	1	60K	20K	Thunderstorm Wind (EG70)	
	Nume	rous trees down								
Hancock County										
Carthage	18	0615CST 0620CST			0	0	60K	10K	Thunderstorm Wind (EG70)	
	Nume	rous trees down								
Hancock County										
Bentley	18	0620CST 0625CST			0	0	60K	20K	Thunderstorm Wind (EG70)	
	Trees	and power lines do	own							

A bow echo raced across Southeast Iowa and West Central Illinois around and just after dawn. Numerous trees and power lines were downed as well as substantial crop damage. In Keokuk, Iowa, trees 3 to 4 feet in diameter were downed while in Nauvoo, Illinois, a 160,000 bushel grain bin along the river was crushed. In Camp Eastman north of Hamilton, 299 boy scouts and adults were camping. A tree limb fell on one tent and injured a boy scout. In the pre-dawn hours ahead of the bow echo, scattered severe storms developed in West Central Illinois producing hail and high winds.

Rock Island County Moline	20 21 Street	2230CST 0030CST flooding	0	0	2K		Heavy Rain
Carroll County .5 NE Marcus	20	2317CST 2359CST	0	0	5K		Heavy Rain
Carroll County 4.8 NNW Savanna	20 Tree l	2320CST 2327CST limbs down on Illinois 84	0	0	5K		Thunderstorm Wind (EG52)
Rock Island County Countywide	20	2327CST 2350CST	0	0	200K	100K	Thunderstorm Wind (EG65)

Also reported by emergency manager. Southwest part of lower Rock Island county from the Mississippi River to just west of Reynolds. Power lines down with corn flattened.





	Time Local/		Path Length	Path Path Number of Length Width Persons		Estin	nated nage	July 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ILLINOIS, Northwest									
Rock Island County 6 WNW Illinois City	20 Lock &	2327CST 2338CST & Dam 16; unconf	irmed gust of	90 knots (10	0 04 mph)	0	100K	20K	Thunderstorm Wind (MG59)
Mercer County Countywide		2334CST 0010CST eported by spotter own. Large areas		_	0 in Viola, I	0 Hamlet, N	10M orth Hende	3M rson, and A	Thunderstorm Wind (EG70) Aledo with numerous trees and power
Whiteside County Coleta	20 Radio	2350CST 2359CST tower at Fire Stati	on downed		0	0	100K	10K	Thunderstorm Wind (EG61)
Mercer County 1.8 S Keithsburg	20 House	2351CST on fire from lights	ning strike		0	0	20K		Lightning
Henry County Annawan	21 Trees o	0000CST 0005CST down in a separate	storm that w	as not part o	0 f the bow e	0 cho in Sou	10K uthern Henr	5K y County.	Thunderstorm Wind (EG52)
Henry County Countywide						_			Thunderstorm Wind (EG80) of the county. Extensive damage it of the storm on L74 with cars blow

Also reported by law enforcement, spotters, and emergency managers in the southern part of the county. Extensive damage in Woodhull, Alpha, Nekoma, and Galva. Law enforcement reported zero visibility at the height of the storm on I-74 with cars blown into the ditches.

Henry County Galva

21 0017CST 0 0 100K Hail(0.88)

Supercell thunderstorms developed in the evening hours and formed an organized cluster around Waterloo, Iowa. As the storms moved southeast through Eastern Iowa they interacted with boundaries and produced 6 tornadoes with widespread wind damage in the Cedar Rapids metropolitan area. KCRG TV and KGAN TV in Cedar Rapids measured 63 knots (73 mph) and 53 knots (61 mph) respectively at their studios during the storm. At the height of the storm in Cedar Rapids, Alliant Energy reported that about half of its 70,000 customers in the Cedar Rapids area were without power. Sporatic wind damage then occurred from Cedar Rapids to the Mississippi River. Heavy rain accompanying the storms produced mainly nuisance street flooding in many cities but did result in 2 mudslides, one in Moline, Illinois and another across Illinois 84 just northwest of Mississippi Palisades State Park in Carroll County Illinois. The second mudslide resulted in a traffic accident with no injuries. In Muscatine County the storms evolved into a bow echo and then raced East Southeast and produced widespread wind damage with winds estimated at 80 knots or stronger (92 mph) that lasted 10 to 15 minutes across the Illinois Counties of Rock Island, Mercer, and Southern Henry. An unsubstantiated wind gust of 90 knots (104 mph) occurred at Lock and Dam 16 on the Mississippi River just east of Muscatine, Iowa. Mercer and Southern Henry counties in Illinois had extensive damage from the bow echo with Galva, Illinois, in southern Henry County being hardest hit. An estimated 10,000 to 15,000 people were without power in the affected 3 counties. High winds of at least 80 knots (92 mph) lasted for nearly 15 minutes in Galva, toppling a grain elevator onto the BNSF railroad mainline. The combination of the toppled grain elevator and a propane leak caused by the fallen elevator halted rail traffic for 11 hours, delaying 7 or 8 BNSF trains. Blackhawk College East Campus in Southeast Henry County cancelled classes for several days due to considerable damage with many trees and power lines down. In Henry County Illinois alone, an estimated 25,000 acres of corn was flattened.





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

ILLINOIS, Northwest

ILZ007 Carroll

Heavy rain of 1.5 to 2 inches in under an hour caused a mudslide across Illinois 84 in Carroll County. The location was one third of a mile north of the Highway 84 bridge, on the northwest side of Mississippi Palisades State Park (or 0.5 miles northeast of Marcus, Illinois). At 0115 CST a vehicle hit the mudslide causing an accident. Fortunately the occupants of the vehicle were not injured.

ILZ015 Rock Island

Heavy rain of just over 2 inches in two hours caused a mudslide in Moline, Illinois. The area affected was 6th and 7th streets between Railroad Avenue and 5th Avenue. The mudslide originated from the old Moline Public Hospital which was undergoing demolition. Due to the time of the day, the mudslide was discovered and the area barricaded off before the morning rush hour began.

Rock Island County Carbon Cliff	27	0925CST 1010CST	0	0	2K		Heavy Rain
	in 45 ı	minutes					
Rock Island County							
5 WSW Andalusia	27	0935CST 0940CST	0	0	50K	5K	Thunderstorm Wind (EG52)
	Trees	& power lines down					
Rock Island County							
Moline	27	0935CST 0955CST	0	0	2K		Heavy Rain
	in 20 1	minutes; street flooding					
Rock Island County							
2 E Port Byron	27	0937CST 0942CST	0	0	30K	2K	Thunderstorm Wind (EG52)
	Trees						
Rock Island County							
Rock Is	27	0940CST	0	0	20K		Hail(0.88)
	Crack	ed windshield on squad car					
Henry County							
Colona	27	0945CST 0950CST	0	0	50K	5K	Thunderstorm Wind (EG52)
	Trees	down in town & on BNSF tracks					
Whiteside County							
Morrison	27	1018CST 1019CST	0	0	20K	5K	Hail(0.88)
Henry County		1015-001					
5 NE Galva	27	1020CST 1022CST	0	0	10K	5K	Hail(0.75)
		1022CST					
Whiteside County	27	1025CGT	0		2517	F1 7	
Prophetstown	27	1025CST 1030CST	0	0	25K	5K	Thunderstorm Wind (EG52)
	Trees	down					





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of ons Injured	Estin Dar Property	nated nage Crops	Character of Storm	July 2003
ILLINOIS, Northwest										
Bureau County										
Countywide	27 Nume	1035CST 1200CST rous reports of tre	es & power li	nes down	0	0	40K	20K	Thunderstorm W	ind (EG55)
Whiteside County Rock Falls	27	1040CST	•		0	0	20K	5K	Hail(0.75)	
ROCK PallS		1041CST tree limbs down in	n estimated 4	3 knot (50 m		U	20K	3K	Han(0.75)	
Whiteside County	2=	1050 CCT				•	217		и в	
Como	27 in 25 i	1059CST 1124CST minutes; roadside	ditches full		0	0	2K		Heavy Rain	
	damag		ı County Illin	ois, most of	the damage				orthern Illinois, produc U.S. 6. Illinois 89 no	
Bureau County Dover	27	1715CST 1740CST			0	0			Funnel Cloud	
Bureau County										
Princeton	27 1-80 &	1715CST 1740CST : IL 26			0	0			Funnel Cloud	
	Tower						across Bure	au County.	The rapid developm	ent of the clouds
Stephenson County										
3 S Rock City	31	1745CST 1748CST			0	0	15K	5K	Hail(0.75)	
		lerstorms develope on, Iowa, a spotter							ucing several reports of inch thick.	of severe hail. In
IOWA, East Central ar	nd Sout	heast								
Buchanan County										
Fairbank	04 4 to 5	0233CST inch branches dov	vn		0	0	50K	10K	Thunderstorm W	ind (EG61)
Buchanan County Independence	highw		Northeast Iov	wa and North	west Illinoi	s wind gu	sts of 40 to		Thunderstorm W in county. Across the vere common. This w	remainder of the
Jackson County 4 W Maquoketa	05	0000CST			0	0	10K	5K	Hail(0.75)	





		Time Local/	Path Length	Path Width	Numb	per of sons	Estimated Damage		July 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
IOWA, East Central	and Sout	heast							
Buchanan County Fairbank	05 Also r	0025CST eported by law e	enforcement		0	0	50K	5K	Thunderstorm Wind (EG52)
Benton County Mt Auburn	05	0030CST			0	0	50K	5K	Thunderstorm Wind (EG52)
Benton County	0.7	0022.CCT			0	0	25017	71 7	
Mt Auburn Benton County	05	0032CST			0	0	250K	5K	Thunderstorm Wind (EG65)
Vinton	05 Large	0032CST trees down			0	0	50K	10K	Thunderstorm Wind (EG52)
Iowa County Ladora	05	0038CST			0	0	50K	5K	Thunderstorm Wind (EG52)
Benton County Vinton Meml Arpt	05 KVTI	0040CST AWOS			0	0	50K	5K	Thunderstorm Wind (MG55)
Benton County									
Vinton	05	0044CST			0	0	250K	10K	Thunderstorm Wind (EG65)
Buchanan County Independence	05	0048CST			0	0	60K	5K	Thunderstorm Wind (EG52)
Buchanan County 5.2 ENE Hazleton	05 In Sta	0050CST nley, Iowa			0	0	60K	5K	Thunderstorm Wind (EG60)
Linn County Cedar Rapids	05 5 inch	0050CST 0053CST limbs and powe	er lines down		0	0	100K		Thunderstorm Wind (EG50)
Benton County Atkins	05 2 to 3	0053CST	ı		0	0	50K	2K	Thunderstorm Wind (EG50)
Johnson County Oxford	05	0100CST			0	0	70K	10K	Thunderstorm Wind (EG61)
Johnson County Solon to North Liberty	05 Power	0105CST 0107CST	on to North Lib	erty	0	0	50K	10K	Thunderstorm Wind (EG61)
Linn County Springville to 5 ENE Springville	05 Spring	0115CST 0125CST gyille to county l	ine		0	0	15K	10K	Hail(0.75)
Jones County 7 W Monticello	05	0120CST			0	0	10K	5K	Hail(0.75)
Delaware County Hopkinton	05 Phone	0123CST & power lines of	lown		0	0	100K	10K	Thunderstorm Wind (EG61)
Jones County Monticello	05 2 to 3	0130CST inch limbs dowr	1		0	0	50K	5K	Thunderstorm Wind (EG52)
Jones County 2 S Wyoming	05	0140CST			0	0	250K	10K	Hail(1.75)





		Time Local/	Length W	Path Width		ber of	Estimated Damage		July 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
IOWA, East Centra	l and Sou	<u>theast</u>								
Jones County										
Wyoming	05	0140CST			0	0	50K		Thunderstorm Wind (EG52)	
Dubuque County										
3 E Epworth	05 Tree	0142CST down blocking Ol	d Highway Rd	1	0	0	50K	5K	Thunderstorm Wind (EG52)	
Jackson County	05	0150CST			0	0	10K	2K	He:1(0.75)	
4 W Maquoketa	05	0150CS1			0	U	10K	2K	Hail(0.75)	
Dubuque County	05	0154000			0	0	1M		There denotes wind (ECC1)	
Dubuque	05	0154CST 0207CST			0	U	IIVI		Thunderstorm Wind (EG61)	
	Nume	erous trees down								
Jackson County										
Maquoketa	05	0155CST			0	0	10K		Hail(0.75)	
Jackson County										
Andrew	05	0157CST			0	0	60K	5K	Thunderstorm Wind (EG52)	
	Limb	s & power lines d	own							
Jackson County										
Green Is	05	0210CST			0	0	60K	5K	Thunderstorm Wind (EG52)	
	Limb	s & power lines d	own							
Dubuque County										
Dubuque	05	0220CST 0250CST			0	0	2K		Heavy Rain	
	Street	flooding								
Scott County										
Parkview	05	0223CST			0	0	60K	5K	Thunderstorm Wind (EG52)	
	6 inch	ı limb down								
Clinton County										
Camanche	05	0233CST			0	0	50K	2K	Thunderstorm Wind (EG52)	
	Powe	r lines down								
	A MO	CS thunderstorm of	complex bowed	d out and rac	ed across I	Eastern Iov	va and Nort	hwest Illin	ois in the pre dawn hours. Due to high	

A MCS thunderstorm complex bowed out and raced across Eastern Iowa and Northwest Illinois in the pre dawn hours. Due to high freezing levels, hail was minimal. Along the Highway 20 corridor in Northeast Iowa and Northwest Illinois winds were estimated at 60 to 70 knots in places (70-80 mph). The cities of Dubuque, Iowa and Freeport, Illinois were particularly hard hit with many trees downed or uprooted. In Stephenson County Illinois, a well defined path of straight line winds was noted from 5 miles West of Freeport, across the northern part of the city, and east to the Stephenson/Winnebago county line. On the US 20 bypass around Freeport at Jct IL 75 five (5) 90 foot high voltage power poles were downed. One injury was reported on a campground southeast of Pearl City in Stephenson county were a tree limb fell on a tent. About 2 hours after the storms passed, a machine shed caught fire 4 to 5 miles north of Andrew, Iowa due to downed power lines.

Lee County 5 SE Houghton	05	1650CST	0	0	60K	5K	Hail(1.00)
Van Buren County 3.5 S Keosauqua	05 Jet Hw	1900CST 1950CST yys 1 &2; water over road	0	0	5K		Heavy Rain
Lee County Donnellson	05 Trees	1930CST & power lines down	0	0	50K	5K	Thunderstorm Wind (EG52)





		Time Local/	Path	Path	Numb		Estin		July 2003
Location	Date	Standard	Length (Miles)	Width (Yards)	Pers Killed	injured	Property	nage Crops	Character of Storm
IOWA, East Central a	nd Sout	<u>heast</u>							
Van Buren County 1.6 NNE Bonaparte	05 Jet J40	1931CST) & W40			0	0	30K	5K	Hail(1.00)
Lee County Donnellson	05 IDOT	1940CST RWIS			0	0	100K	10K	Thunderstorm Wind (MG63)
Van Buren County Milton	05	2010CST			0	0	40K	5K	Thunderstorm Wind (EG52)
Lee County Sandusky	05 3 to 4	2013CST foot diameter trees	s down		0	0	60K	5K	Thunderstorm Wind (EG56)
Lee County 4 NW Keokuk	05	2015CST			0	0	15K	5K	Hail(0.88)
Lee County Ft Madison	05 Power	2105CST lines down			0	0	50K	5K	Thunderstorm Wind (EG52)
Lee County Keokuk	05 Lock &	2115CST & Dam 19			0	0	60K	5K	Thunderstorm Wind (MG56)
		e thunderstorms de me area producing		-	•	front left o	over from th	ne early mo	rning storms. The storms trained over
Clinton County									
Camanche	06 18 inc	0512CST h limbs down & p	ower out		0	0	50K	5K	Thunderstorm Wind (EG55)
	Outflo	w from thundersto	orms in Centra	al Iowa spaw	ned an inte	nse thunde	erstorm tha	t moved ac	ross Clinton County.
Muscatine County	0.5	100 CC			•			4.000	m
1.9 ENE Wilton Cedar County	06	1237CST			0	0	60K	15K	Thunderstorm Wind (EG65)
1.8 W Durant Muscatine County	06	1239CST			0	0	30K	10K	Thunderstorm Wind (EG65)
2.7 E Wilton	06 On Tra	1239CST ail Avenue			0	0	350K	25K	Thunderstorm Wind (EG65)
Scott County 7 WNW Walcott	06 Locati	1245CST on is 1 mile north	of Durant on	1st Avenue	0	0	5K	1K	Thunderstorm Wind (EG56)

A strong thunderstorm travelled across Southern Cedar and Northern Muscatine counties during the early afternoon. A microburst about a mile in diameter occurred along the Cedar/Muscatine line between Wilton and Durant Iowa. Several trees were downed along highway 927 just east of Little Elkhorn Creek and at the Wahkonsa Country Club. A vehicle travelling on highway 927 was reported to be pushed backwards and then sideways by the wind. South of the golf course on Trail Avenue in Northern Muscatine County, numerous trees were downed on two farms with an outbuilding leveled. Just north of Durant on 1st Avenue, a 10 foot limb was downed just east of the Scott/Cedar county line.





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	per of sons Injured		nated nage Crops	July 2003 Character of Storm
IOWA, East Central a	and Sout	<u>theast</u>							
Buchanan County 2 E Independence to Winthrop	07 Trees	0315CST 0325CST down			0	0	30K	5K	Thunderstorm Wind (EG52)
Buchanan County Jesup	07	0341CST			0	0	50K	5K	Hail(1.00)
Benton County Mt Auburn	07	0343CST			0	0	50K	5K	Hail(1.00)
Buchanan County 4.9 WNW Aurora	07 10-20	0403CST 0410CST inch diameter lin	nbs down in S	tanley	0	0	40K	5K	Thunderstorm Wind (EG52)
Delaware County Countywide	07 Water	0415CST 0450CST over old highway	y 20		0	0	5K		Heavy Rain
Jones County Monticello	07	0455CST			0	0	50K	5K	Hail(1.00)
Jackson County Maquoketa	07 Occur	0520CST 0555CST red in 35 minutes	with street flo	ooding	0	0	2K		Heavy Rain
Jackson County Maquoketa	07 Nume	0522CST 0526CST rous trees down c	ritywide		0	0	600K	5K	Thunderstorm Wind (EG56)
Clinton County Elvira	07	0553CST			0	0	15K	2K	Hail(0.75)
Clinton County Clinton	07 Tree d	0555CST 0600CST lown. KCWI AW	OS reported 4	8 knots	0	0	40K	5K	Thunderstorm Wind (EG52)
Clinton County Clinton	07	0557CST			0	0	50K		Hail(1.00)
Clinton County Camanche	rates of	of 1 to 2 inches a	an hour were kfull. The Cli	common wi	th the storm	s. Heavy	rain along	the North	Hail(1.00) avy rain and damaging winds. Rainfall Fork of the Maquoketa River in Iowa e storms moved through downing some
Scott County Eldridge	07	1721CST			0	0	10K		Hail(0.75)
Scott County 4 E Eldridge	07 Jct Ut	1740CST ica Ridge & Le C	laire Rds		0	0	50K	10K	Hail(2.00)
Scott County Eldridge	07	1800CST 1837CST			0	0	2K		Heavy Rain
Muscatine County Muscatine	07	1808CST			0	0	10K	2K	Hail(0.88)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estima Dam Property		July 2003 Character of Storm
IOWA, East Central a	nd Sout	<u>heast</u>							
Scott County Bettendorf	07 6 minu	1814CST 1820CST ate duration			0	0	5K		Hail(0.75)
Scott County Le Claire	07 At Iow	1820CST 1918CST va Welcome Co	enter on I-80		0	0	2K		Heavy Rain
Scott County Pleasant Vly	07 Creeks	1825CST 1935CST s bankfull			0	0	5K		Heavy Rain
Muscatine County Atalissa	anothe	r MCS by ear		ucing very h	eavy rain ar	nd some h			Thunderstorm Wind (EG52) orning MCS. The storms evolved into wa and Northern Illinois. Training of
Scott County Davenport	08 Street	1055CST 1110CST flooding			0	0	2K		Heavy Rain
Keokuk County What Cheer	08 in 10 n	1120CST 1130CST ninutes			0	0	2K		Heavy Rain
Washington County 6 S Washington	08 in 10 n	1144CST 1154CST ninutes			0	0	2K		Heavy Rain
Van Buren County 3 N Farmington	08 Old po	1152CST 1200CST orch roof off &	trailer overturne	ed	0	0	80K	5K	Thunderstorm Wind (EG55)
Des Moines County Burlington	08 Also b	1230CST 1240CST y media			0	0	70K		Thunderstorm Wind (EG52)
Des Moines County Mediapolis	08 Consid	1238CST 1308CST lerable street f	looding. Fell in 3	30 minutes	0	0	10K		Heavy Rain
Muscatine County Muscatine	08	1238CST			0	0	10K	2K	Hail(0.88)
Lee County 5 W Keokuk	08 Gravel	1239CST 1359CST driveway part	tially washed aw	ray	0	0	5K		Heavy Rain
Lee County Ft Madison	08	1243CST 1303CST flooding	•		0	0	2K		Heavy Rain



National Weather Service Storm Data and Unusual Weather Phenomena



July 2003

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Per Killed	ber of sons Injured	Estin Dar Property	nated nage Crops	Character of Storm	July 2003
IOWA, East Central a	ınd Sout	<u>heast</u>								
Buchanan County										
5 NE Hazleton	08	1250CST 1320CST			0	0	2K		Heavy Rain	
	Stream	s & ditches over	flowing							
Buchanan County										
4.9 WNW Aurora	08	1255CST 1325CST			0	0	2K		Heavy Rain	
	Stream	s & ditches over	flowing. Fell in	n 30 minutes						

Another MCS developed along old outflow boundaries from convection earlier in the day. A high moisture atmosphere allowed storms to produce very heavy rain in short time periods. Across Southeast Iowa and West Central Illinois a small bow echo developed that produced concentrated areas of damage. In Henderson County numerous trees were downed across U.S. 34 along with a semi overturned that closed the highway for about an hour while in Burlington, numerous trees and power lines were downed. While moving through Burlington, the Burlington ASOS at the airport south of town measured a gust of 42 knots (48 mph).

Cedar County 2.5 SW Lowden	09 An ear	0755CST ly morning thunderstorm with considerable	0 e lightning ki	0 lled 7 dai	100K ry cows and	damaged	Lightning a farm house southwest of Lowden.
Van Buren County 1 SW Bonaparte	09	1820CST	0	0	20K	5K	Hail(0.88)
Washington County Washington	09	1830CST 2000CST	0	0	5K		Heavy Rain
	in 90 n	ninutes					
Keokuk County							
Sigourney	09	1837CST 1840CST	0	0	40K	5K	Thunderstorm Wind (EG52)
	Large	tree limb down					
Jefferson County							
5 NW Fairfield	09	1917CST 1921CST	0	0	60K	10K	Thunderstorm Wind (EG61)
Washington County							
Washington	09	1920CST 1928CST	0	0	50K	5K	Thunderstorm Wind (EG60)
	15 incl	h diameter tree down					
Van Buren County							
Keosauqua	09	1932CST 1952CST	0	0	2K		Heavy Rain
	in 20 n	ninutes					
Van Buren County							
2.2 SW Farmington	09	1940CST 2200CST	0	0	100K	10K	Flash Flood
	On Hw	yy 81 at the Iowa/Missouri state line					
Cedar County							
Lowden	09	1955CST 2025CST	0	0	2K		Heavy Rain
	in 30 n	ninutes					
Des Moines County							
1 W Middletown	09	2000CST 2005CST	0	0			Funnel Cloud
	Also b	y spotters at Jct U.S. 34 & 180th Ave					





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Per Killed	per of sons Injured	Estin Dar Property	nated nage Crops	July 2003 Character of Storm
IOWA, East Central	and Sou	<u>theast</u>							
Henry County									
Mt Union	09	2000CST 2010CST			0	0	60K	10K	Thunderstorm Wind (EG60)
	Large	trees & power lin	nes down						
Scott County									
Davenport	09	2000CST 2020CST			0	0	2K		Heavy Rain
	Street	flooding							
Henry County									
Salem	09	2008CST 2020CST			0	0	30K	10K	Thunderstorm Wind (EG52)
	Corn	bent and broken o	off stalks						
Des Moines County									
Burlington	09	2015CST 2030CST			0	0	50K		Thunderstorm Wind (EG55)
	Trees	down							
Lee County									
Keokuk	09	2015CST 2017CST			0	0	500K	5K	Thunderstorm Wind (EG57)
	Also l	heavy rain							
	North	east Missouri. T that moved acro	hunderstorms	developed al the late afte	long old ou ernoon and	tflow bour evening l	ndaries and nours, produ	ahead of a	ss Eastern Iowa, Northern Illinois, and a cold front and formed another severe ally wind damage. Training of storms

produced very heavy rains and some areas experienced flash flooding due to soils that were near saturation from rain over the previous 6 days.

Keokuk County							
What Cheer	18	0438CST	0	0	10K	5K	Hail(0.75)
	Trees	also downed					
Henry County							
1 S Salem	18	0524CST 0527CST	0	0	5K	2K	Thunderstorm Wind (EG52)
	Lawn	furniture thrown across yard					
Lee County							
West Pt	18	0544CST 0549CST	0	0	50K	10K	Thunderstorm Wind (EG70)
	Wides	spread trees down, no power					
Lee County							
10 SW Ft Madison	18	0555CST 0600CST	0	0	50K	5K	Thunderstorm Wind (EG52)
	Trees	down Ft Madison to Keokuk					
Lee County							
Ft Madison	18	0555CST 0600CST	0	0	500K		Thunderstorm Wind (EG70)
	Trees	down or snapped off					
Lee County							
2 N Montrose	18	0555CST 0600CST	0	0	250K	10K	Thunderstorm Wind (EG65)
	Roof	partially off business					
Lee County							
Montrose	18	0556CST 0601CST	0	0	60K	5K	Thunderstorm Wind (EG61)
	Nume	erous trees down					





	Time	Path	Path	Numbe		Estin	nated		July 2003
	Local/	Length	Width	Perso	ons	Dan	nage		
Location Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

IOWA, East Central and Southeast

Lee County

Keokuk 18 0600CST 0 0 250K 40K Thunderstorm Wind (EG70)

Numerous large trees down

A bow echo raced across Southeast Iowa and West Central Illinois around and just after dawn. Numerous trees and power lines were downed as well as substantial crop damage. In Keokuk, Iowa, trees 3 to 4 feet in diameter were downed while in Nauvoo, Illinois, a 160,000 bushel grain bin along the river was crushed. In Camp Eastman north of Hamilton, 299 boy scouts and adults were camping. A tree limb fell on one tent and injured a boy scout. In the pre-dawn hours ahead of the bow echo, scattered severe storms developed in West Central Illinois producing hail and high winds

Benton County
9 NNW Vinton to
4 NE Vinton

20 2117CST 6.8 150 0 0 200K 15K Tornado (F1)

Traveled through mainly rural areas

Tornado touched down just north of the Cedar River 9 miles North Northwest of Vinton. Tornado moved southeast, crossing the Cedar River and then crossed the Cedar River again 6 miles North of Vinton. The tornado continued moving southeast...crossing county route V71 and Iowa highway 150 before lifting in a corn field 4 miles Northeast of Vinton. Few structures were in the path of the tornado...which appeared to reach its maximum intensity in the corn field at the end of its track.

Linn County Palo	20	2140CST 2150CST	0	0	250K	30K	Thunderstorm Wind (EG61)
Linn County							
Center Pt	20	2145CST 2148CST	0	0	250K	30K	Thunderstorm Wind (EG61)
Linn County							
Cedar Rapids	20	2158CST 2217CST	0	0	5M		Thunderstorm Wind (MG63)
Linn County							
Cedar Rapids	20	2200CST 2240CST	0	0	5K		Heavy Rain
	Interst	ate 380 and other streets partially flooded in	n spots				
Linn County							
Cedar Rapids	20	2208CST 2211CST	0	0			Funnel Cloud
	Jct of	Iowa 13 & 100 by KGAN TV					
Linn County							
Cedar Rapids	20	2213CST 2218CST	0	0			Funnel Cloud
	Over I	CCRG downtown studio					
Cedar County							
2 NNE Lowden	20	2233CST 2243CST	0	0	100K	30K	Thunderstorm Wind (EG61)
	Corn f	lattened with trees down and an out buildin	g damaged				
Johnson County							
Iowa City	20	2240CST 2310CST	0	0	2K		Heavy Rain

Dubuque street at I-80 with street flooding





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	er of ons Injured	Estin Dar Property	nated nage Crops	July 2003 Character of Storm
Location IOWA, East Central a			(Willes)	(Tarus)	Kilicu	Injured	Troperty	Clops	Character of Storin
Johnson County									
3 N Coralville	20	2245CST			0	0	2K	5K	Thunderstorm Wind (EG52)
3 IV Coraivine		2253CST rain for 8 minute	·s		v	v	211	JK	Thunderstorm Wind (EG52)
Johnson County									
Iowa City	20	2252CST			0	0	30K		Thunderstorm Wind (EG52)
	KIOW	2304CST / measured 49 knd	ots @ 2301 C	ST					
Muscatine County									
Atalissa	20	2300CST 2310CST			0	0	25K	5K	Thunderstorm Wind (EG56)
		2310CST and power lines d	own						
Scott County									
Davenport	20	2300CST 2359CST			0	0	2K		Heavy Rain
	Street	flooding downtov	vn						
Muscatine County									
2 E Atalissa	20	2307CST 2315CST			0	0	15K	5K	Thunderstorm Wind (EG61)
	6 pow	er poles down							
Muscatine County									
Muscatine	20	2310CST 2332CST			0	0	2K		Heavy Rain
	In 22	minutes							
Muscatine County									
3 S Atalissa	20	2315CST 2325CST			0	0	50K	10K	Thunderstorm Wind (EG56)
	Tree d	lown on a 35 foot	camper						
Muscatine County									
Muscatine	20	2316CST			0	0	50K	10K	Hail(1.00)
	Lasted	2326CST 1 10 minutes							
	Lasiec	1 10 minutes							
Muscatine County	20	2220 CIST			0	0	1017		
Muscatine	20 21	2320CST 0100CST			0	0	10K		Flash Flood
	Water	bumper deep at C	Cedar and Mul	berry Streets	3				
Muscatine County									
5 NNE Muscatine	20	2320CST 2330CST			0	0	20K	10K	Thunderstorm Wind (EG61)
	Tree d	lown on a trailer							
Muscatine County									
Muscatine	20	2324CST 2334CST			0	0	20K		Thunderstorm Wind (EG52)
	Trees	down on U.S. 61							
Muscatine County									
Muscatine Muni Arpt	20	2324CST 2334CST			0	0	20K	5K	Thunderstorm Wind (MG50)
	KMU	T AWOS							
		11.1.1.1			, ,				1777

Supercell thunderstorms developed in the evening hours and formed an organized cluster around Waterloo, Iowa. As the storms moved southeast through Eastern Iowa they interacted with boundaries and produced 6 tornadoes with widespread wind damage in the Cedar Rapids metropolitan area. KCRG TV and KGAN TV in Cedar Rapids measured 63 knots (73 mph) and 53 knots (61 mph) respectively at their studios during the storm. At the height of the storm in Cedar Rapids, Alliant Energy reported that about half of its 70,000 customers in the Cedar Rapids area were without power. Sporatic wind damage then occurred from Cedar Rapids





Time Path Path Number of Estimated Local/ Length Width Persons Damage

Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

IOWA, East Central and Southeast

to the Mississippi River. Heavy rain accompanying the storms produced mainly nuisance street flooding in many cities but did result in 2 mudslides, one in Moline, Illinois and another across Illinois 84 just northwest of Mississippi Palisades State Park in Carroll County Illinois. The second mudslide resulted in a traffic accident with no injuries. In Muscatine County the storms evolved into a bow echo and then raced East Southeast and produced widespread wind damage with winds estimated at 80 knots or stronger (92 mph) that lasted 10 to 15 minutes across the Illinois Counties of Rock Island, Mercer, and Southern Henry. An unsubstantiated wind gust of 90 knots (104 mph) occurred at Lock and Dam 16 on the Mississippi River just east of Muscatine, Iowa. Mercer and Southern Henry counties in Illinois had extensive damage from the bow echo with Galva, Illinois, in southern Henry County being hardest hit. An estimated 10,000 to 15,000 people were without power in the affected 3 counties. High winds of at least 80 knots (92 mph) lasted for nearly 15 minutes in Galva, toppling a grain elevator onto the BNSF railroad mainline. The combination of the toppled grain elevator and a propane leak caused by the fallen elevator halted rail traffic for 11 hours, delaying 7 or 8 BNSF trains. Blackhawk College East Campus in Southeast Henry County cancelled classes for several days due to considerable damage with many trees and power lines down. In Henry County Illinois alone, an estimated 25,000 acres of corn was flattened.

Jones County
1 S Martelle to
2.6 WSW Morley

20 2147CST 3.5 35 0 0 10K 10K Tornado (F0)

Affected rural areas

Tornado developed 1 mile south of Martelle and moved East Southeast across mainly corn fields and dissipated 2.6 miles West Southwest of Morley. Damage path was noted from the air by NWS Survey team enroute to survey damage around the Clarence, Iowa area

Linn County
.5 N Covington to
.3 SE Covington

20 2158CST 1 300 0 0 500K 45K Tornado (F2)

Tornado developed in a corn field about 0.5 miles north of Covington. The tornado moved South Southeast crossing North Glen and Michael Road in Covington and then lifted in another corn field just north of Ellis Road

Linn County Cedar Rapids

20 2206CST 0.3 200 0 0 2M Tornado (F2)

Strong F2...winds estimated at 140 mph.

Tornado touched down near the intersection of Zelda Drive and E Avenue Northwest. The tornado moved southeast for 0.25 miles across Peace Avenue and then lifted on Floral Avenue. The tornado reached peak intensity on Peace Avenue where F2 winds unroofed 3 homes, and 26 other homes were heavily damaged. This was the first tornado inside the Cedar Rapids city limits since 1965

Cedar County
2.4 NW Clarence to
1.6 NNE Clarence

20 2224CST 2.4 440 0 0 1M 30K Tornado (F1)

Strong F1...winds estimated around 110 mph.

Tornado developed 2.4 miles Northwest of Clarence near 120th Street. The tornado moved southeast for 2.4 miles and lifted 1.6 miles North Northeast of Clarence near Oxford Junction Road. Every farm along the path sustained significant damage to crops with 5 to 6 barns destroyed. A grain wagon was thrown a quarter of a mile and debris was scattered for more than one half mile

Linn County
1 SW Mt Vernon to
1 S Mt Vernon

20 2252CST 2300CST 0.5 70 0 0 10K 10K Tornado (F1)

Tornado developed in stratiform rain on the back side of the storm system, video taped by a storm chaser, and noted by many eye witnesses. Tornado developed 1 mile southwest of Mt Vernon and traveled roughly east for one half mile before dissipating 1 mile south of Mt Vernon. Only damage reported were some power poles taken down along Iowa highway 1 southwest of Mt Vernon.





- Carlotte	91111	Data e	iliu U	iiusua	1 446	euu	<u> </u>	IGIR	mena	9,69,
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estin Dar Property	nated nage Crops	Character of Storm	July 2003
IOWA, East Central		theast								
Scott County										
Blue Grass	27	0923CST 0925CST			0	0	30K	5K	Hail(1.00)	
Clinton County Dewitt	27	0940CST 0944CST			0	0	20K	2K	Thunderstorm	Wind (EG50)
	Thund damag		au County Illi	nois, most of t	he damage				orthern Illinois, proc U.S. 6. Illinois 89	
Linn County										
Coggon	31 Nume	1733CST 1745CST erous reports of ni	ickel to 1.25 i	nch hail	0	0	200K	10K	Hail(1.50)	
		derstorms develop on, Iowa, a spotte							ducing several report inch thick.	s of severe hail.
MISSOURI, Northe	ast_									
Clark County 4.5 WNW Anson	05	1940CST 2200CST			0	0	5K		Heavy Rain	
Clark County Athens	05	1955CST 2005CST imbs down & tre	es topped		0	0	70K	15K	Thunderstorm	Wind (EG61)
Clark County 4.5 WNW Anson	05	2030CST 2300CST			0	0	200K	20K	Flash Flood	
Scotland County 4 N Granger	Culve 05	ert 50% washed o	ut; Possum H	ollow Lane & (CR 10 0	0	50K	5K	Thunderstorm	Wind (EG52)
Clark County 1.5 W Ashton to Ashton	05 Trace	2043CST 2048CST down with roofs	off norshoo		0	0	200K	5K	Thunderstorm	Wind (EG57)
Clark County Wayland	05	2053CST 14 inch limbs & 1	·	own: roof off s	0 hed	0	70K	5K	Thunderstorm	Wind (EG55)
	Severe		developed alo	ng the outflow	boundary/i		over from th	e early mo	orning storms. The	storms trained over
Clark County 4.5 WNW Anson	08	130 7 /22T			0	0	1K		Heavy Rain	
7.5 WINW AIISUII		1307CST 1317CST			U	U	11/		IICAVY KAIII	

Fell in 10 minutes





		Time	Path	Path	Number of		Estimated			July 2003
		Local/	Length	Width	Pers	sons	Daı	mage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MISSOURI, Northeast

Another MCS developed along old outflow boundaries from convection earlier in the day. A high moisture atmosphere allowed storms to produce very heavy rain in short time periods. Across Southeast Iowa and West Central Illinois a small bow echo developed that produced concentrated areas of damage. In Henderson County numerous trees were downed across U.S. 34 along with a semi overturned that closed the highway for about an hour while in Burlington, numerous trees and power lines were downed. While moving through Burlington, the Burlington ASOS at the airport south of town measured a gust of 42 knots (48 mph).

Clark County 4.5 WNW Anson	08	1730CST 1910CST r over County Route V	0	0	50K	5K	Flash Flood
	wate	r over County Route V					
Clark County							
1 N Anson	08	1840CST 1910CST	0	0	15K	5K	Flash Flood
	Water	r over County Route V					
Clark County							
1 N Revere	08	1845CST 1930CST	0	0	100K	15K	Flash Flood
	Coun	ty Route DD partially washed out					
Scotland County							
Memphis	08	2115CST	0	0	15K		Lightning
	Tree	struck & fell into power lines					
	Storm	ns that developed in the afternoon hour			-		

Storms that developed in the afternoon hours continued into the evening across far Northeast Missouri and a part of West Central Illinois and produced heavy rain. Due to already saturated soils, flash flooding occurred across parts of Northern Clark county and parts of Hancock county.

Clark County 4.5 WNW Anson	09 in 90 i	1815CST 1945CST minutes	0	0	2K		Heavy Rain
Scotland County							
Bible Grove	09	1918CST 1922CST	0	0	40K	5K	Thunderstorm Wind (EG55)
	Trees	down					
Clark County							
1.4 N Anson to 2.4 N Anson	09	1940CST 2200CST	0	0	30K	10K	Flash Flood
	Jct Hv	vy 81 & County Route V; also on Hy	vy 81 at the Iowa/Mi	ssouri S	tate line		
Clark County							
5 N Kahoka	09	1940CST 2200CST	0	0	100K	15K	Flash Flood
	Road	partially washed out Jct hwy 81 and	County routeC				
Clark County							
Kahoka	09	1948CST 1952CST	0	0	20K	5K	Thunderstorm Wind (EG55)
	Large	tree down					
Clark County							
2 W Wayland	09	2017CST 2022CST	0	0			Funnel Cloud

Seen in the Twin Bridges area

This was the 9th and final severe weather episode that concluded an active 6 day period across Eastern Iowa, Northern Illinois, and Northeast Missouri. Thunderstorms developed along old outflow boundaries and ahead of a cold front and formed another severe MCS that moved across the area in the late afternoon and evening hours, producing mainly wind damage. Training of storms





	Time	Path	Path	Number of Estimated Persons Damage				July 2003	
	Local/	Length	Width	Pers		Dar	nage		
<u>Location</u> Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MISSOURI, Northeast

produced very heavy rains and some areas experienced flash flooding due to soils that were near saturation from rain over the previous 6 days.

Clark County 4.2 W Anson	31	1545CST 1548CST	0	0	5K	2K	Hail(0.75)
Clark County 4.5 WNW Anson	31	1548CST 1552CST	0	0	10K	5K	Hail(1.00)

Thunderstorms developed along a boundary moving through Iowa, Illinois, and Missouri producing several reports of severe hail. In Coggon, Iowa, a spotter reported hail that was disk shaped. The hail was 3 inches long and 1 inch thick